

## ABSTRACT OF THE DISCLOSURE

An analog signal measuring device for measuring an analog signal includes a digital controller, a waveform converter and a comparator. The digital controller includes a PWM controller for outputting a pulse signal having an adjustable pulse width to the waveform converter, which converts the pulse signal into a sawtooth wave or a triangle wave for output as a carrier signal. Next, the comparator feeds a comparison pulse signal, which is obtained by comparing the carrier signal to the analog signal, to the digital controller, which enables or disables the counter to generate a count value corresponding to the comparison pulse signal. Since the count value depends on the comparison pulse signal and the type of the comparison pulse signal is directly related to the analog signal, the digital controller may get the analog signal according to the count value.

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